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Sequence Listing was accepted.

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Reviewer: Durreshwar Anjum

Timestamp: [year=2010; month=6; day=9; hr=11; min=32; sec=45; ms=20; ]

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Application No: 10584447 Version No: 1.0

**Input Set:**

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**Total Warnings:** 1  
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**No. of SeqIDs Defined:** 3  
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Error code	Error Description
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<110> Shionogi&Co.,Ltd.

<120> A method of preparation of protein-polymer conjugate

<130> 0032-01291PUS1

<140> 10584447

<141> 2010-06-02

<150> JP03/426601

<151> 2003-12-24

<160> 3

<170> PatentIn version 3.1

<210> 1

<211> 398

<212> PRT

<213> Pseudomonas putida

<400> 1

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Tyr Gln Thr Ala Thr Phe Thr Phe Pro Thr Val Glu Tyr Gly Ala Ala  
35 40 45

Cys Phe Ala Gly Glu Gln Ala Gly His Phe Tyr Ser Arg Ile Ser Asn  
50 55 60

Pro Thr Leu Asn Leu Leu Glu Ala Arg Met Ala Ser Leu Glu Gly Gly  
65 70 75 80

Glu Ala Gly Leu Ala Leu Ala Ser Gly Met Gly Ala Ile Thr Ser Thr  
85 90 95

Leu Trp Thr Leu Leu Arg Pro Gly Asp Glu Val Leu Leu Gly Asn Thr  
100 105 110

Leu Tyr Gly Cys Thr Phe Ala Phe Leu His His Gly Ile Gly Glu Phe  
115 120 125

Gly Val Lys Leu Arg His Val Asp Met Ala Asp Leu Gln Ala Leu Glu  
130 135 140

Ala Ala Met Thr Pro Ala Thr Arg Val Ile Tyr Phe Glu Ser Pro Ala  
145 150 155 160

Asn Pro Asn Met His Met Ala Asp Ile Ala Gly Val Ala Lys Ile Ala  
165 170 175

Arg Lys His Gly Ala Thr Val Val Asp Asn Thr Tyr Cys Thr Pro  
180 185 190

Tyr Leu Gln Arg Pro Leu Glu Leu Gly Ala Asp Leu Val Val His Ser  
195 200 205

Ala Thr Lys Tyr Leu Ser Gly His Gly Asp Ile Thr Ala Gly Ile Val  
210 215 220

Val Gly Ser Gln Ala Leu Val Asp Arg Ile Arg Leu Gln Gly Leu Lys  
225 230 235 240

Asp Met Thr Gly Ala Val Leu Ser Pro His Asp Ala Ala Leu Leu Met  
245 250 255

Arg Gly Ile Lys Thr Leu Asn Leu Arg Met Asp Arg His Cys Ala Asn  
260 265 270

Ala Gln Val Leu Ala Glu Phe Leu Ala Arg Gln Pro Gln Val Glu Leu  
275 280 285

Ile His Tyr Pro Gly Leu Ala Ser Phe Pro Gln Tyr Thr Leu Ala Arg  
290 295 300

Gln Gln Met Ser Gln Pro Gly Gly Met Ile Ala Phe Glu Leu Lys Gly  
305 310 315 320

Gly Ile Gly Ala Gly Arg Arg Phe Met Asn Ala Leu Gln Leu Phe Ser  
325 330 335

Arg Ala Val Ser Leu Gly Asp Ala Glu Ser Leu Ala Gln His Pro Ala  
340 345 350

Ser Met Thr His Ser Ser Tyr Thr Pro Glu Glu Arg Ala His Tyr Gly

355

360

365

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Asp Leu Leu Ala Asp Val Gln Gln Ala Leu Lys Ala Ser Ala  
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Thr Ile Glu Gly Ile Ile Lys Ile Arg Thr Gly Asn Leu Asn Glu Tyr  
35 40 45

Ser Glu Gln Glu Leu Leu Asp Cys Asp Arg Arg Ser Tyr Gly Cys Asn  
50 55 60

Gly Gly Tyr Pro Trp Ser Ala Leu Gln Leu Val Ala Gln Tyr Gly Ile  
65 70 75 80

His Tyr Arg Asn Thr Tyr Pro Tyr Glu Gly Val Gln Arg Tyr Cys Arg  
85 90 95

Ser Arg Glu Lys Gly Pro Tyr Ala Ala Lys Thr Asp Gly Val Arg Gln  
100 105 110

Val Gln Pro Tyr Asn Glu Gly Ala Leu Leu Tyr Ser Ile Ala Asn Gln  
115 120 125

Pro Val Ser Val Val Leu Glu Ala Ala Gly Lys Asp Phe Gln Leu Tyr  
130 135 140

Arg Gly Gly Ile Phe Val Gly Pro Cys Gly Asn Lys Val Asp His Ala  
145 150 155 160

Val Ala Ala Val Gly Tyr Gly Pro Asn Tyr Ile Leu Ile Lys Asn Ser  
165 170 175

Trp Gly Thr Gly Trp Gly Glu Asn Gly Tyr Ile Arg Ile Lys Arg Gly  
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Pro Val Lys Asn  
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<212> PRT  
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<400> 3

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Asn Tyr Ile Arg Lys Trp Gln Gln Val Tyr Ser His Arg Asp Gly Arg  
35 40 45

Lys Gln Gln Met Thr Glu Glu Gln Arg Glu Trp Leu Ser Tyr Gly Cys  
50 55 60

Val Gly Val Thr Trp Val Asn Ser Gly Gln Tyr Pro Thr Asn Arg Leu  
65 70 75 80

Ala Phe Ala Ser Phe Asp Glu Asp Arg Phe Lys Asn Glu Leu Lys Asn  
85 90 95

Gly Arg Pro Arg Ser Gly Glu Thr Arg Ala Glu Phe Glu Gly Arg Val  
100 105 110

Ala Lys Glu Ser Phe Asp Glu Glu Lys Gly Phe Gln Arg Ala Arg Glu  
115 120 125

Val Ala Ser Val Met Asn Arg Ala Leu Glu Asn Ala His Asp Glu Ser

130	135	140
Ala Tyr Leu Asp Asn Leu Lys Lys Glu Leu Ala Asn Gly Asn Asp Ala		
145	150	155
Leu Arg Asn Glu Asp Ala Arg Ser Pro Phe Tyr Ser Ala Leu Arg Asn		
165	170	175
Thr Pro Ser Phe Lys Glu Arg Asn Gly Gly Asn His Asp Pro Ser Arg		
180	185	190
Met Lys Ala Val Ile Tyr Ser Lys His Phe Trp Ser Gly Gln Asp Arg		
195	200	205
Ser Ser Ser Ala Asp Lys Arg Lys Tyr Gly Asp Pro Asp Ala Phe Arg		
210	215	220
Pro Ala Pro Gly Thr Gly Leu Val Asp Met Ser Arg Asp Arg Asn Ile		
225	230	235
240		
Pro Arg Ser Pro Thr Ser Pro Gly Glu Gly Phe Val Asn Phe Asp Tyr		
245	250	255
Gly Trp Phe Gly Ala Gln Thr Glu Ala Asp Ala Asp Lys Thr Val Trp		
260	265	270
Thr His Gly Asn His Tyr His Ala Pro Asn Gly Ser Leu Gly Ala Met		
275	280	285
His Val Tyr Glu Ser Lys Phe Arg Asn Trp Ser Glu Gly Tyr Ser Asp		
290	295	300
Phe Asp Arg Gly Ala Tyr Val Ile Thr Phe Ile Pro Lys Ser Trp Asn		
305	310	315
320		
Thr Ala Pro Asp Lys Val Lys Gln Gly Trp Pro		
325	330	